6152448041



Material Safety Data Sheet SUSPEND® SC INSECTICIDE

MSDS Number: 102000003167 MSDS Version 2.2 Revision Date: 01/29/2007

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name MSDS Number

SUSPEND® SC INSECTICIDE

102000003167

Bayer Environmental Science 2 T.W. Alexander Drive Research Triangle PK, NC 27709 USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day) For Product Information call: 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name

Deltamethrin 1,2-Propanediol CAS-No. 52918-63-5 57-55-6

Average % by Weight

4.75 15.20

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview

Caution! Hazard to humans and domestic animals. Harmful if inhaled. Do not breathe vapours or spray mist. Contact with product may result in transient tingling and reddening of the skin. Remove and wash contaminated clothing before re-use.

Physical State

liquid suspension

Odor

none

Appearance

white

Routes of Exposure

Inhalation, Skin contact

Immediate Effects

Skin

Contact with product may result in transient tingling and reddening of the skin.

Inhalation

Harmful if inhaled. Do not breathe vapours or spray mist.

Potential Environmental

Effect

Extremely toxic to fish and aquatic invertebrates.

SECTION 4. FIRST AID MEASURES



Material Safety Data Sheet SUSPEND® SC INSECTICIDE

MSDS Number, 102000003167 MSDS Version 2.2

General

When possible, have the product container or label with you when calling a

poison control center or doctor or going for treatment.

Eye

Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing

eye. Call a physician or poison control center immediately.

Skin

Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control

center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an

unconscious person. Do not leave victim unattended.

Inhalation

Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or

poison control center immediately.

Notes to Physician

Treatment

There is no specific antidote. Appropriate supportive and symptomatic treatment

as indicated by the patient's condition is recommended.

SECTION 5. FIRE FIGHTING MEASURES

Flash point

not applicable

Suitable Extinguishing

Media

Carbon dioxide (CO2), Dry chemical, Foam, Water

Fire Fighting Instructions

Fight fire from upwind position. Evacuate personnel to safe areas. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire

fighting to enter drains or water courses.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces, in case of spill, leak or emergency, use a NIOSH approved chemical cartridge-type respirator.



Material Safety Data Sheet SUSPEND® SC INSECTICIDE

MSDS Number: 102000003167 MSDS Version 2.2

Methods for Cleaning Up

Dike area to prevent runoff. Collect and transfer the product into a properly labelled and tightly closed container. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Decontaminate tools and equipment following cleanup.

Additional Advice

Isolate area. Contaminated soil may have to be removed and disposed.

机能够加强扩充。 SECTION 7. HANDLING AND STORAGE

Handling Procedures Avoid contact with skin, eyes and clothing. Handle and open container in a

manner as to prevent spillage. Smoking, eating and drinking should be

prohibited in the application area.

Storing Procedures Store in original container. Do not contaminate water, food, or feed by storage or

disposal. Store in a cool, dry place and in such a manner as to prevent cross

contamination with other pesticides, fertilizers, food, and feed.

Work/Hygienic Procedures

Handle in accordance with good industrial hygiene and safety practice. Recommendations for exposure control/personal protection are intended for the

manufacture, formulation and packaging of the product.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the tollet or applying cosmetics.

Remove and wash contaminated clothing before re-use.

Min/Max Storage Temperatures

no data available

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection

Train employees in safe use of the product. Eye wash facility and safety shower

should be available. Follow all label instructions.

Engineering Controls Maintain exposure levels below the exposure limit through the use of general

and local exhaust ventilation.

Eye/Face Protection Chemical resistant goggles must be worn.

Hand Protection Chemical-resistant gloves made of waterproof material such as neoprene, butyl

rubber, barrier laminate or nitrile rubber.

Respiratory Protection When respirators are required, select NIOSH approved equipment based on

actual or potential airborne concentrations and in accordance with the

appropriate regulatory standards and/or industry recommendations.

Exposure Limits



Material Safety Data Sheet SUSPEND® SC INSECTICIDE

MSD\$ Number: 102000003167 MSD\$ Version 2.2

Pyrogenic (fumed) amorphous silica 112945-52-5 Z3

TWA

20 millions of particles per

cubic foot of air

Z3 Remarks TWA

0.8 mg/m3

The value is calculated from a specified equation using a value of 100%. Values lower than 100% will give higher exposure limits. See regulation for specific

regulation for spec equation.

1,2-Propanediol

57-55-6

WEEL

TWA

10 mg/m3

Form of exposure

Aerosol.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

white

Physical State

liquid suspension

Odor

none

pH

6.6 suspension in water

<= 7.0 (100 %) at 20 °C

Specific Gravity

1.05 at 20 °C

Density

approx. 1.053 g/cm3 at 20 °C

Boiling Point

no data available

Melting / Freezing Point

no data available

Water solubility

immiscible

Minimum Ignition Energy

no data available

Viscosity

165 mPa.s at 20 °C

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions.

Incompatibility

Strong oxidizing agents strong reducing agents

Hazardous

Thermal decomposition can lead to release of:

Decomposition Products

Carbon monoxide



Material Safety Data Sheet SUSPEND® SC INSECTICIDE

MSDS Number; 102000003167 MSDS Version 2.2

Carbon dioxide (CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been conducted on this product as formulated. The non-acute information pertaines to the active ingredient, deltamethrin technical.

Acute Oral Toxicity

male/female combined rat: LD50: > 15,000 mg/kg

Acute Dermal Toxicity

male/female combined rabbit: LD50: > 10,000 mg/kg

Acute Inhalation Toxicity

male/female combined rat: LC50: > 1.02 mg/l

Exposure time: 4 h

Determined in the form of a respirable aerosol.

(actual)

male/female combined rat: > 4.08 mg/l

Exposure time: 1 h

Determined in the form of a respirable aerosol.

Extrapolated from the 4 hr LC50.

(actual)

Skin Irritation

rabbit: No skin irritation.

Eye Irritation

rabbit: No eye irritation.

Sensitization

guinea pig: Non-sensitizing.

Chronic Toxicity

Deltamethrin caused neurobehavioral effects (e.g., tremors) in chronic toxicity

studies in rats and dogs.

Assessment Carcinogenicity

Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

None.

NTP

None.

IARC

Deltamethrin

52918-63-5

Overall evaluation: 3

OSHA None.

Reproductive &

Developmental Toxicity

REPRODUCTION: Deltamethrin was not a reproductive toxicant in multi-

generation reproduction studies in rats.

DEVELOPMENTAL TOXICITY: Deltamethrin was not a primary developmental toxicant in developmental toxicity studies in rats and rabbits. Developmental effects (e.g., delayed ossifications) were observed in rabbits at the high-dose but



MSDS Number: 102000003167 MSDS Version 2.2

Material Safety Data Sheet SUSPEND® SC INSECTICIDE

were considered secondary to maternal toxicity.

Neurotoxicity

Deltamethrin caused neurobehavloral effects (e.g., tremors) without correlating neuropathological changes in acute and subchronic neurotoxicity screening

studies in rats.

Mutagenicity

Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to Fish

Oncorhynchus mykiss (rainbow trout)

LC50: 0.00026 mg/l Exposure time: 96 h

Bluegill sunfish LC50: 0.00017 mg/l Exposure time: 96 h

Acute Toxicity to Aquatic

Invertebrates

Eastern Oyster LC50: 0.0082 mg/l

Exposure time: 96 h

Mysidopsis bahia (mysid shrimp)

LC50: 0.000001 mg/l Exposure time: 96 h

Toxicity to other organisms

Bobwhite quail

LD50: > 2,250 mg/kg

Bobwhite quail LC50: > 5,620 ppm

Mallard duck LC50: 8,039 ppm

Stability in water

Half life: 55 - 65 h

pH: 9.0

Bioaccumulation

Bluegill sunfish BCF: 189 - 3,930

Environmental Precautions

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. For guidence, contact your State Water Board or Regional Office of the EPA. Retain and

dispose of contaminated wash water.



Material Safety Data Sheet SUSPEND® SC INSECTICIDE

MSDS Number, 102000003167 MSDS Version 2.2

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

Do not contaminate water, food, or feed by disposal. Dispose in accordance with all local, state/provincial and federal regulations.

> Follow advice on product label and/or leaflet. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal

Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke,

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not DOT regulated

NOTE: For transport purposes (49 CFR Part 173.132), the calculated 1-Hour LC50 (Rat) is: 4.08 mg/l.

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

TSCA list

1,2-Propanediol

57-55-6

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

SARA Title III - Section 302 - Notification and Information None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting None.

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive

US State Right-To-Know Ingredients

1,2-Propanediol

57-55-6

MN. RI

Canadian Regulations

Canadian Domestic Substance List

1,2-Propanediol

57-55-6

Environmental

TO/ TO/ TOD 03.43 01074

Bayer Environmental Science



MSDS Number: 102000003167 MSDS Version 2.2

Material Safety Data Sheet SUSPEND® SC INSECTICIDE

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Deltamethrin

52918-63-5

1,2-Propanediol

57-55-6

NFPA 704 (National Fire Protection Association):

Flammability - 0 Re

Reactivity - 0 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Updated for general editorial purposes.

Revision Date: 01/29/2007

Health - 1

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.